

Addendum No. 01
ID 4327-08-71
Revised Sheet 60
January 8, 2020

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	PIER 1	PIER 2	E. ABUT.	SUPER.	TOTAL
203.0200	REMOVING OLD STRUCTURE STATION 46+54.89	LS	-----	-----	-----	-----	-----	-----
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-5-438	LS	-----	-----	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	280	-----	-----	280	-----	560
502.0100	CONCRETE MASONRY BRIDGES	CY	60	125	125	60	384	754
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	-----	-----	575
502.3210	PIGMENTED SURFACE SEALER	SY	15	-----	-----	15	-----	160
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	3,270	9,160	9,160	3,260	-----	24,850
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,590	17,000	17,000	1,590	78,640	115,820
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	12	-----	-----	12	-----	24
550.0500	PILE POINTS	EACH	10	40	40	10	-----	100
550.2124	PIILING CIP CONCRETE 12"x 0.25" INCH	LF	650	2,000	2,000	600	-----	5,250
604.0400	SLOPE PAVING CONCRETE	SY	280	-----	-----	255	-----	535
612.0406	PIPE UNDERDRAIN WRAPPED 6" INCH	LF	210	90	-----	210	90	420
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-----	-----	-----	2	-----	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50	-----	-----	50	-----	100
SPV.0090.01	REMOVING EXISTING TIMBER PILING	LF	-----	280	280	-----	-----	560
SPV.0105.01	SUPERSTRUCTURE "X" V-DROP EDGE STRUCTURE B-5-438	LS	-----	-----	-----	-----	-----	1
	NON-BID ITEMS	SIZE	-----	-----	-----	-----	-----	1/2" & 3/4"
	FILLER	-----	-----	-----	-----	-----	-----	-----

★ IF THE CENTER OF THE PROPOSED PILE IS WITHIN 2'-6" FROM CENTER OF AN EXISTING PILE, THE EXISTING PILE CAN BE REMOVED OR THE PROPOSED PILE SPACING CAN BE ADJUSTED. PILES FROM THE EXISTING BRIDGE, THE COST OF REMOVING EXISTING PILES FROM THE EXISTING BRIDGE, THE COST OF REMOVING OLD STRUCTURE STATION 46+54.89.

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.24
OPERATING RATING FACTOR: 1.61
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20" ± 5".

MATERIAL PROPERTIES:
CONCRETE MASONRY (ALL OTHER) $f'_c = 4,000$ P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ P.S.I.

FOUNDATION DATA:

WEST ABUTMENT TO BE SUPPORTED ON 12"x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ± PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED LENGTH 65'-0".
EAST ABUTMENT TO BE SUPPORTED ON 12"x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ± PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED LENGTH 60'-0".
PIERS TO BE SUPPORTED ON 12"x 0.250" CIP CONCRETE PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ± PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED LENGTH 50'-0".
★ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA:
A.A.D.T. = 3,500 (2019)
A.A.D.T. = 4,300 (2039)
R.D.S. = 50 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE. JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.T.M. DESIGNATION M 213, TYPE 1, 11 OR 111 OR A.A.S.T.M. DESIGNATION M 213, TYPE 1, 11 OR 111 OR THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAIL SHEET. ALL REINFORCEMENT SHALL BE ON CONCRETE SILL-TYPE ABUTMENTS AND CONCRETE MULTI-COLUMNED PIERS WITH A CLEAR ROADWAY WIDTH OF 30'-FEET.

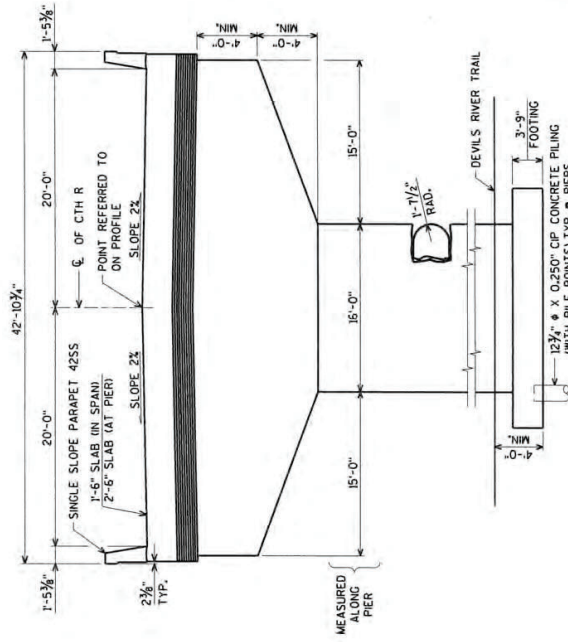
AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER IS TO BE APPLIED AS SHOWN IN DETAIL ON SHEET 3. BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE PLACED ABOVE THE EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS FOR STRUCTURES.

William C. Decker, P.E.

01/08/20



TYPICAL SECTION THRU BRIDGE

NO.	DATE	REVISION	BY
01.20	ADD PIPE UNDERDRAIN AT SLOPE PAVING	AYRES	

STRUCTURE B-5-438	QUANTITIES, TYPICAL SECTION, & DESIGN DATA
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3433 Oakwood Hills Parkway Eau Claire, WI 54601 www.ayresassociates.com	AYRES ASSOCIATES
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ORIGINAL PLANS PREPARED BY
1/17/2020

LANDSCAPING ITEMS

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
44+80	-	45+90	CTHR	675	675	0.5	20	20	15
47+20	-	49+05	CTHR	1740	1740	1.1	50	50	40
	UNDISTRIBUTED	ENTIRE PROJECT		485	485	0.3	15	15	10
TOTALS				2,900	2,900	1.9	85	85	65

SILT FENCE

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 MAINTENANCE LF
49+05	-	49+47	CTHR	200	400
50+53	-	53+00	CTHR	570	1,140
	UNDISTRIBUTED			150	300
TOTALS				920	1,840

REMOVING CONCRETE SLOPE PAVING

STATION	TO	STATION	LOCATION	204.0175 SY
49+29	-	49+87	CTHR	164
50+17	-	50+70	CTHR	138
TOTALS				302

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	SIZE AND TYPE	LENGTH	203.0100 EACH
49+75	CTHR	18" RCP	100 FT	1
50+31	CTHR	18" RCP	100 FT	1
TOTAL				2

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CTHR	2	1
TOTAL		1

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF
49+90	CTHR RT	15
50+90	CTHR RT	15
52+60	CTHR RT	15
	UNDISTRIBUTED	15
TOTAL		60

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
49+50	CTHR RT	3
50+20	CTHR RT	3
50+85	CTHR LT	3
	UNDISTRIBUTED	6
TOTAL		15

ROCK BAGS

STATION	LOCATION	628.7570 EACH	REMARKS
49+25	CTHR RT	15	SILT FENCE RELIEF
49+60	CTHR LT	15	DITCH CHECK
	UNDISTRIBUTED	15	
TOTAL		45	

REMOVING SIGNS & SUPPORTS

STATION	LOCATION	638.2602 SIGNS TYPE II EACH	638.3000 SMALL SIGN SUPPORTS EACH
50+75	CTHR LT & RT	2	2
TOTALS		2	2

PROJECT NUMBER: 4327-09-71

HWY: CTH R

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET NO: 10

E

ALL ITEMS CATEGORY 0010 UNLESS SPECIFIED.

Addendum No. 01
ID 4327-09-71
Revised Sheet 10
January 8, 2020

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, TYPICAL SECTION, & DESIGN DATA
3. MISCELLANEOUS DETAILS
4. SUBSURFACE EXPLORATION
5. WEST ABUTMENT PILE LAYOUT
6. WEST ABUTMENT WING 1 DETAILS
7. WEST ABUTMENT WING 2 DETAILS
8. WEST ABUTMENT DETAILS & BILL OF BARS
9. EAST ABUTMENT PILE LAYOUT
10. EAST ABUTMENT WING 3 DETAILS
11. EAST ABUTMENT WING 4 DETAILS
12. EAST ABUTMENT DETAILS & BILL OF BARS
13. EAST ABUTMENT WING 5 DETAILS
14. 45W" PRESTRESSED GIRDER DETAILS
15. 45W" PRESTRESSED GIRDER DETAILS
16. STEEL DIAPHRAGM DETAILS
17. SUPERSTRUCTURE PLAN
18. SUPERSTRUCTURE TRANSVERSE SLAB STEEL LAYOUT
19. SUPERSTRUCTURE DETAILS
20. SUPERSTRUCTURE DETAILS
21. SINGLE SLOPE PAVING 42SS
22. SLOPE PAVING (CONCRETE CAST-IN-PLACE)
23. SLOPE PAVING (CONCRETE CAST-IN-PLACE)

FOR TYPICAL SECTION
AND DESIGN DATA
SEE SHEET 2

William C. Decker
01/08/20

NO.	DATE	ADD	RETAINING WALLS	AYRES	BY
8					

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Madison, WI 53711
WWW.AYRESASSOCIATES.COM

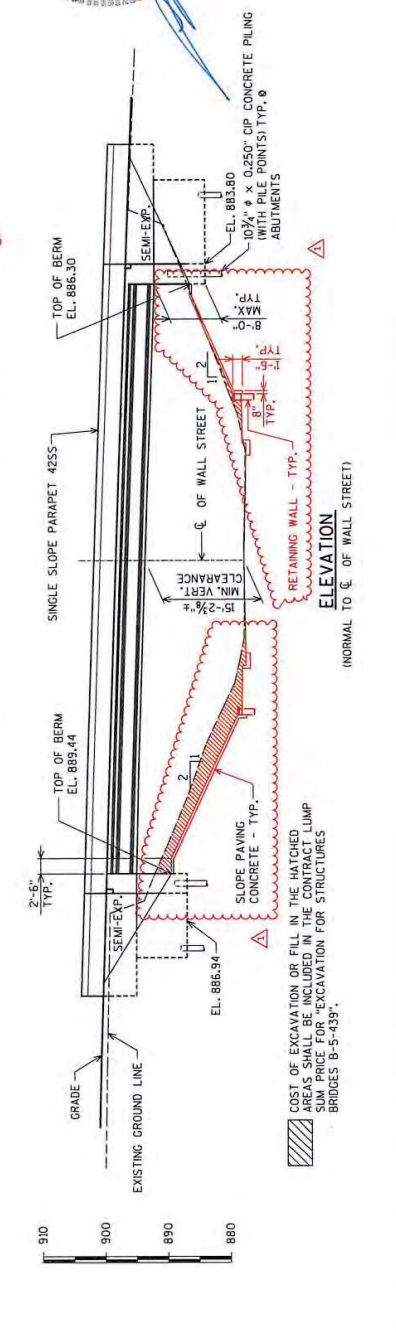
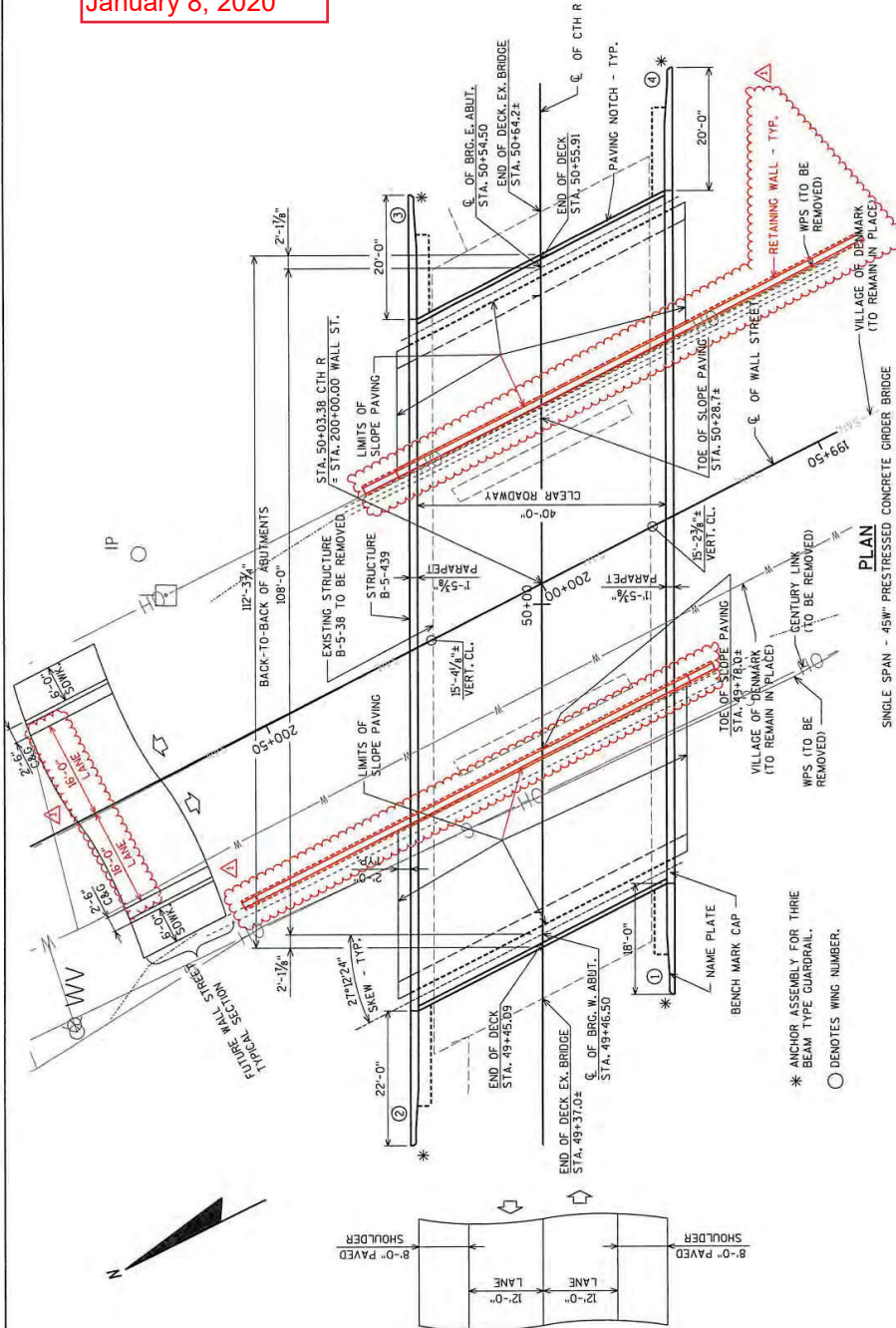
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED
CHIEF STRUCTURES DESIGN ENGINEER
DATE

STRUCTURE B-5-439
CTH R OVER WALL STREET
COUNTY BROWN
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
DESIGNED BY AEB/CAD ZSS BY JEB/CLS/CAD

GENERAL PLAN
SHEET 1 OF 23
69

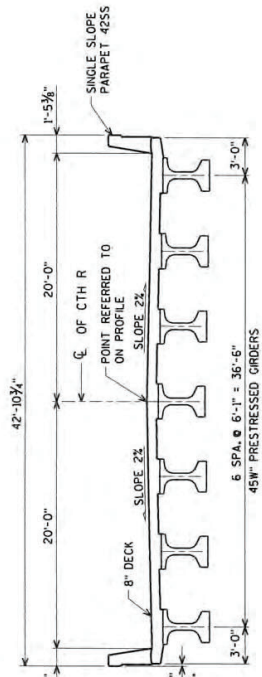
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Revised Sheet 69
January 8, 2020



BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489
CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0200	REMOVING OLD STRUCTURE STA. 50+00.00	LS	-----	-----	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-5-439	LS	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	410	400	-----	810
502.0100	CONCRETE MASONRY BRIDGES	CY	83	82	207	372
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	495	495
502.3210	PROTECTIVE SURFACE SEALER	SY	20	20	115	135
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	-----	-----	763	763
505.0400	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4,620	4,610	31,510	41,510
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	5,030	4,970	-----	10,000
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	7	7	14	14
506.4000	STEEL DIAPHRAGMS B-5-439	EACH	-----	-----	12	12
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14	14	-----	28
550.0500	PILE POINTS	SY	17	17	-----	34
550.2104	PILE PILING CIP CONCRETE 10 1/2" X 0.25" INCH	LF	1,105	1,105	-----	2,210
604.0400	SLOPE PAVING CONCRETE	SY	175	175	-----	350
612.0406	PIPE UNDERDRAIN WRAPPED 6" INCH	LF	220	220	-----	440
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	2	-----	4
845.0111	GEOTEXTILE TYPE D SCHEDULE A	SY	50	50	-----	100
SPV-0105.02	SUPERSTRUCTURE 1/2" V-DROP EDGE STRUCTURE B-5-439	LS	-----	-----	-----	1
NON-BID ITEMS						
FILLER						
SIZE						
1/2" & 3/4"						

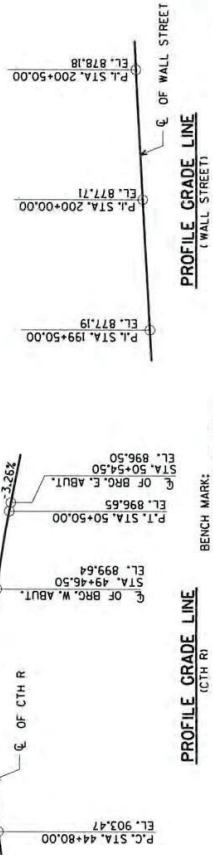


TYPICAL SECTION THRU BRIDGE

Addendum No. 01
ID 4327-09-71
Revised Sheet 70
January 8, 2020

TRAFFIC DATA:

CTH R
A.A.D.T. = 3,500 (2019)
A.A.D.T. = 4,300 (2039)
R.D.S. = 50 M.P.H.
WALL STREET
A.A.D.T. = 720 (2019)
A.A.D.T. = 820 (2039)
R.D.S. = 30 M.P.H.



PROFILE GRADE LINE (CTH R)

PROFILE GRADE LINE (WALL STREET)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
TWO DIGITS OF A THREE DIGIT BAR NO. AND THE FIRST JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION W 33.
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.
ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROTECTIVE SURFACE SEALER.
THE UPPER PORTION OF EXCAVATION FOR STRUCTURES BRIDGES B-5-439 SHALL BE THE EXISTING GROUND LINE.
THE EXISTING STRUCTURE, B-5-38, TO BE REMOVED, IS A 127-FOOT LONG, THREE SPAN, CONCRETE HAUNCHED SLAB BRIDGE WITH A CLEAR ROADWAY WIDTH OF 30-Feet, ON CONCRETE SILL-TYPE ABUTMENTS. THE EXISTING STRUCTURE IS LOCATED ON THE EAST SIDE OF THE BACKFACE OF ABUTMENTS. WORK WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS WITH BACKFILL STRUCTURE TYPE A.
PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER IS TO BE APPLIED AS SHOWN IN DETAIL ON SHEET 3.
BEVEL EXPOSED EDGES OF CONCRETE 1/4" UNLESS NOTED OTHERWISE.
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS BEING EXCAVATED SHALL BE REMOVED TO THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.
THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES.
"BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND JUNCTIONS FOR 3 FEET SHALL BE PLACED BEYOND PAY LIMITS FOR EXCEEDING PAY QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
DESIGN TRUCK: 1.14
OPERATING FACTOR: 1.95
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) * 250 KIPS
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20" W.S.P.
MATERIAL PROPERTIES:
CONCRETE MASONRY (SUPERSTRUCTURE) $f'_c = 4,000$ P.S.I., $f'_t = 3,500$ P.S.I., ALL OTHER $f'_c = 3,500$ P.S.I., $f'_t = 3,000$ P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ P.S.I., $f_u = 75,000$ P.S.I.
45W PRESTRESSED GIRDER
CONCRETE MASONRY
STRANDS - 0.5" DIA WITH ULTIMATE TENSILE STRENGTH OF $f_{pu} = 270,000$ P.S.I.
FOUNDATION DATA:
WEST ABUTMENT TO BE SUPPORTED ON 10 1/2" X 0.250" CIP CONCRETE PILING WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED LENGTH 65'-0".
EAST ABUTMENT TO BE SUPPORTED ON 10 1/2" X 0.250" CIP CONCRETE PILING WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED LENGTH 65'-0".
* THE REQUIRED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

AYRES ASSOCIATES

3433 Oakwood Hills Parkway
Eau Claire, WI 54601
www.ayresassociates.com

ORIGINAL PLANS PREPARED BY
William C. Dehn
01/08/20

STRUCTURE B-5-439

QUANTITIES, TYPICAL SECTION, & DESIGN DATA

8

ADD RETAINING WALLS AND CURBS AT SLOPE PAVERS

NO. DATE

REVISION

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

BY

AYRES

PLANS

NO.

2 OF 23

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Addendum No. 01
ID 4327-09-71
Added Sheet 96B
January 8, 2020

PROJECT NO: 4327-09-71		HWY: CTH R		COUNTY: BROWN		CROSS SECTIONS: WALL ST		SHEET 96B		E	
FILE NAME: V:\TRANS\GEORGRAPH\CTH R\WALLCD\DESIGN\PLINFO\PLINFO-WALLS (TEMP).DWG LAYOUT NAME: WALL ST (2)											
PLOT DATE: 1/7/2020 3:51 PM				PLOT BY: SCHATEL, RIAN				PLOT SCALE: 3/8"=30' FT HORZ. / 1"=30' FT VERT.			
WISDOT/CADD SHEET 49											

Addendum No. 01
ID 4327-09-71
Added Sheet 96C
January 8, 2020

